

WHAT IS CLAIMED IS:

1. A method of operating a base station subsystem, comprising the steps of:
processing a call initiation request; and
contemporaneously, allocating resources within the base station subsystem needed to
grant network access to a Mobile Station.
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2. A method of operating a base station subsystem, as set forth in claim 1, wherein the call initiation request is an origination request.
- 10 3. A method of operating a base station subsystem, as set forth in claim 1, wherein the call initiation request is a page response message.
4. A method of operating a base station subsystem, as set forth in claim 1, wherein the call initiation request is a reconnect message.
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5. A method of operating a base station subsystem, as set forth in claim 1, wherein the resources are hardware resources.
6. A method of operating a base station subsystem, as set forth in claim 1, wherein the resources are software resources.
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7. A method of operating a base station subsystem, as set forth in claim 1, wherein the method is performed in a routing agent.
- 25 8. A method of operating a base station subsystem, as set forth in claim 1, wherein the resources further comprise resource manager resources.
9. A method of operating a base station subsystem, as set forth in claim 1, wherein the resources include call processing resources.
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10. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of contemporaneously, allocating resources is performed during user authentication.
- 35 11. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Base Transceiver Station.

12. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Base Station Controller.

5 13. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Call Processor.

14. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Resource Manager.

10 15. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Packet Control Function.

15 16. A method of operating a base station subsystem, as set forth in claim 1, wherein the step of processing the call initiation request is performed at a Mobile Switching Center.

17. A method of operating a base station subsystem, comprising the steps of:
allocating radio frequency resources; and
contemporaneously, allocating packet session resources.

20 18. A method of operating a base station subsystem, as set forth in claim 17, wherein a routing agent initiates the step of allocating radio frequency resources.

19. A method of operating a base station subsystem, as set forth in claim 17, wherein a 25 call processing agent initiates the step of allocating packet resources.

20. A method of operating a wireless network, comprising the steps of:
establishing an A10 interface;
allocating Packet Control Function resources for a packet data session in response to 30 establishing the A10 interface; and
connecting the PCF resources for the packet data session in response to allocating the PCF resources.

21. A method of operating a wireless network, as set forth in claim 20, wherein a PCF 35 performs the step of allocating PCF resources.

22. A method of operating a wireless network as set forth in claim 20, wherein the A10 interface is established between a PCF and a Packer Data Service Node (PDSN).

23. A method of operating a wireless network, comprising the steps of:
5 establishing an A10 interface;
performing a channel assignment process; and
initiating a service connection request in response to establishing the A10 interface and in response to performing the channel assignment process.

10 24. A method of operating a wireless network, as set forth in claim 23, wherein the A10 interface is established between a Packet Control Function and a Packet Data Service Node.

25. A method of operating a wireless network, as set forth in claim 23, wherein the channel assignment process is performed between a call processor and a Mobile Station.

15 26. A method of operating a wireless network, as set forth in claim 23, wherein the service connection request is generated by a routing agent.